

S/N 10/537,738

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | | |
|------|----|-----|----|---|
| NEWS | 1 | | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | OCT | 02 | CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt |
| NEWS | 3 | OCT | 19 | BEILSTEIN updated with new compounds |
| NEWS | 4 | NOV | 15 | Derwent Indian patent publication number format enhanced |
| NEWS | 5 | NOV | 19 | WPIX enhanced with XML display format |
| NEWS | 6 | NOV | 30 | ICSD reloaded with enhancements |
| NEWS | 7 | DEC | 04 | LINPADOCDB now available on STN |
| NEWS | 8 | DEC | 14 | BEILSTEIN pricing structure to change |
| NEWS | 9 | DEC | 17 | USPATOLD added to additional database clusters |
| NEWS | 10 | DEC | 17 | IMSDRUGCONF removed from database clusters and STN |
| NEWS | 11 | DEC | 17 | DGENE now includes more than 10 million sequences |
| NEWS | 12 | DEC | 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment |
| NEWS | 13 | DEC | 17 | MEDLINE and LMEALINE updated with 2008 MeSH vocabulary |
| NEWS | 14 | DEC | 17 | CA/CAPLUS enhanced with new custom IPC display formats |
| NEWS | 15 | DEC | 17 | STN Viewer enhanced with full-text patent content from USPATOLD |
| NEWS | 16 | JAN | 02 | STN pricing information for 2008 now available |
| NEWS | 17 | JAN | 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 18 | JAN | 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 19 | JAN | 28 | MARPAT searching enhanced |
| NEWS | 20 | JAN | 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS | 21 | JAN | 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS | 22 | JAN | 28 | MEDLINE and LMEALINE reloaded with enhancements |
| NEWS | 23 | FEB | 08 | STN Express, Version 8.3, now available |
| NEWS | 24 | FEB | 20 | PCI now available as a replacement to DPCI |
| NEWS | 25 | FEB | 25 | IFIREF reloaded with enhancements |
| NEWS | 26 | FEB | 25 | IMSPRODUCT reloaded with enhancements |
| NEWS | 27 | FEB | 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that

S/N 10/537,738

specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:22:18 ON 26 MAR 2008

=> set abbr on perm
SET COMMAND COMPLETED

=> set plurals on perm
SET COMMAND COMPLETED

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'CAPLUS' ENTERED AT 17:22:47 ON 26 MAR 2008
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FILE 'INPADOCDB' ENTERED AT 17:22:47 ON 26 MAR 2008
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=> s wo 96/025442/pn
L1 0 WO 96/025442/PN

=> s wo 1996/025442/pn
L2 0 WO 1996/025442/PN

=> s wo 1996025442/pn
L3 2 WO 1996025442/PN

=> d l3 1-2 all

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:607587 CAPLUS
DN 125:223475
ED Entered STN: 12 Oct 1996
TI Stepwise preparation of tapered monovinyl aromatic monomer-conjugated
diene block copolymers
IN Woodson, Gary E.; Esneault, Calvin P.; Myers, Michael O.; Marchand, Gary
R.
PA Dow Chemical Company, USA
SO PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C08F297-04
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 39
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

S/N 10/537,738

PI WO 9625442 A1 19960822 WO 1996-US1852 19960212 <--
W: BR, CA, CN, JP, KR, MX
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
PRAI US 1995-389700 A 19950214

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 9625442 ICM C08F297-04
IPCI C08F0297-04 [ICM,6]; C08F0297-00 [ICM,6,C*]
IPCR C08F0297-00 [I,C*]; C08F0297-04 [I,A]

AB The preparation of tapered di- or triblock aromatic vinyl monomer-diene copolymers

comprises: (a) contacting one or more conjugated dienes with a monofunctional Li alkyl initiator or a polymer block derived from monovinyl aromatic monomer(s) with a terminal living Li anion capable of initiating anionic polymerization and a hydrocarbon solvent, in a closed

reactor

equipped with a reflux condenser under conditions of reflux; (b) partially polymerizing the one or more conjugated dienes; and (c) after step (b), contacting with the reaction mixture one or more monovinyl aromatic monomers under the conditions such that the unreacted conjugated diene and monovinyl monomer(s) polymerize; wherein the materials condensed during the process are recycled to the reactor. In contrast to prior-art methods, the process avoids coupled diblock copolymer formation and high temps., allows the use of high solids levels, and provides a wider range of tapering and products of high uniformity. In an example, tapered styrene-butadiene block copolymer was obtained in isopentane-cyclohexane using sec-BuLi initiator.

ST tapered butadiene styrene block polymer; polymn stepwise tapered block

IT Polymerization catalysts

(anionic, block, lithium-based; stepwise preparation of tapered monovinyl aromatic monomer-conjugated diene block copolymers)

IT Polymerization

(anionic, block, stepwise; preparation of tapered monovinyl aromatic monomer-conjugated diene block copolymers)

IT 598-30-1, sec-Butyllithium

RL: CAT (Catalyst use); USES (Uses)

(initiator; stepwise preparation of tapered monovinyl aromatic monomer-conjugated diene block copolymers)

IT 78-78-4, Isopentane 110-82-7, Cyclohexane, uses

RL: NUU (Other use, unclassified); USES (Uses)

(solvent; stepwise preparation of tapered monovinyl aromatic

monomer-conjugated

diene block copolymers)

IT 106107-54-4P, Butadiene-styrene block copolymer 694491-73-1P

RL: IMF (Industrial manufacture); PREP (Preparation)

(tapered di- and triblock; stepwise preparation of tapered monovinyl aromatic

aromatic

monomer-conjugated diene block copolymers)

IT 709030-54-6P

RL: IMF (Industrial manufacture); PREP (Preparation)

(tapered; stepwise preparation of tapered monovinyl aromatic

monomer-conjugated

diene block copolymers)

L3 ANSWER 2 OF 2 INPADOCDB COPYRIGHT 2008 EPO/FIZ KA on STN

AN 14923094 INPADOCDB

TI STEP PROCESS FOR TAPERED MONOVINYLDIENE AROMATIC MONOMER CONJUGATED DIENE

BLOCK COPOLYMERS.

PROCESSUS PAR ETAPES D'OBTENTION DE COPOLYMERES BLOCS A SEQUENCES EVOLUTIVES, CONSTITUES DE MONOMERES AROMATIQUES DU TYPE MONOVINYLIDENE ET DE DIENES CONJUGUES.

TL English; French
 IN WOODSON, GARY, E.; ESNEAULT, CALVIN, P.; MYERS, MICHAEL, O.; MARCHAND, GARY, R.
 INS WOODSON GARY E; ESNEAULT CALVIN P; MYERS MICHAEL O; MARCHAND GARY R
 PA THE DOW CHEMICAL COMPANY
 PAS DOW CHEMICAL CO, US
 DT Patent
 PI WO 9625442 A1 19960822
 PIT WOA1 INTERNATIONAL PUBLICATION WITH INTERNATIONAL SEARCH REPORT
 FDT WO100000 With international search report;
 WO030000 Before expiration of time limit for amending the claims and to be republished in the event of the receipt of the amendments
 DAV 19960822 examined-printed-without-grant
 STA PRE-GRANT PUBLICATION
 DS W: BR CA CN JP KR MX
 RW (EPO): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
 AI WO 1996-US1852 W 19960212 English
 AIT WOW International application Number
 PRAI US 1995-389700 A 19950214 (USA)
 PRAIT USA Patent application
 REC 4. THERE ARE 4 CITED REFERENCES (4 PATENT, 0 NON PATENT) AVAILABLE FOR THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.
 IC.V 6
 ICM C08F297-04
 IPCR C08F0297-04 [I,A]
 C08F0297-00 [I,C*]
 EPC C08F0297-04
 AB The invention is a process for the preparation of tapered block copolymers according to one of the formulae: B-t-A or A-B-t-A, wherein A comprises a polymer block derived from one or more monovinylidene aromatic monomers, B comprises a polymer block derived from one or more conjugated dienes, and t is a tapered polymer block derived from one or more monovinylidene aromatic monomers and one or more conjugated dienes wherein the portion of the block closest to block A is rich in monovinylidene aromatic monomer units, the portion of the block closest to block B is rich in conjugated diene units and the relative amount of conjugates diene and monovinylidene aromatic monomer units gradually changes along the backbone of the tapered block, comprising: a) contacting one or more conjugated dienes with a monofunctional lithium alkyl initiator or a polymer block derived from monovinylidene aromatic monomers with a terminal living lithium anion capable of initiating anionic polymerization and a hydrocarbon solvent, in a closed reactor equipped with a reflux condenser under conditions of reflux; b) partially polymerizing the one or more conjugated dienes; and c) after step b), contacting with the reaction mixture one or more monovinylidene aromatic monomers under conditions such that the unreacted conjugated diene and monovinylidene monomers polymerize; wherein the materials condensed during the process are recycled to the reactor.
 AL English
 AS national office
 ABFR L'invention porte sur un procede de preparation de copolymeres blocs a sequences evolutives de formule B-t-A ou A-B-t-A, dans laquelle A represente un polymere bloc derive d'un ou plusieurs monomeres aromatiques du type monovinylidene, B represente un polymere bloc derive d'un ou plusieurs dienes conjugues, et t est un polymere bloc a sequences evolutives, derive d'un ou plusieurs monomeres du type monovinylidene

aromatique et d'un ou plusieurs dienes conjugués, la partie du bloc la plus proche du bloc A étant riche en unités de monomère aromatique monovinylidène et la partie du bloc la plus proche du bloc B étant riche en unités de diène conjugué, et la quantité relative d'unités de diène conjugué et de monomère du type monovinylidène aromatique changeant graduellement le long du squelette du bloc à séquences évolutives. Le procédé selon l'invention consiste: a) à mettre un ou plusieurs diènes conjugués en contact avec un initiateur monofonctionnel d'alkyle de lithium ou avec un polymère bloc dérivé de monomères aromatiques du type monovinylidène avec un anion terminal actif de lithium capable d'amorcer la polymérisation et un solvant d'hydrocarbure, dans un réacteur fermé équipé d'un condenseur à reflux, dans des conditions de reflux.; b) à polymériser partiellement un ou plusieurs des diènes conjugués; et c), à l'issue de l'étape b), à mettre le mélange réactionnel en contact avec un ou plusieurs monomères aromatiques du type monovinylidène dans des conditions telles que les monomères de diène conjugué et les monomères aromatiques du type monovinylidène n'ayant pas réagi polymérisent, alors que les produits condensés pendant le processus sont recyclés dans le réacteur.

AL French
AS national office
FA AB; ABFR; AI; AN; DAV; DS; DT; EPC; ICM; IN; INS; IPC; IPCR; LAF; PA; PAS; PI; PIT; PRAI; REP; TI

=> file uspatall caplus japio

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|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 17.84 | 18.05 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.80 | -0.80 |

FILE 'USPATFULL' ENTERED AT 17:25:55 ON 26 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 17:25:55 ON 26 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 17:25:55 ON 26 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 17:25:55 ON 26 MAR 2008
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FILE 'JAPIO' ENTERED AT 17:25:55 ON 26 MAR 2008
COPYRIGHT (C) 2008 Japanese Patent Office (JPO)- JAPIO

=> s (block (2a) copolymer#) and (impact(1w)polystyren? or hips)
L4 5135 (BLOCK (2A) COPOLYMER#) AND (IMPACT(1W) POLYSTYREN? OR HIPS)

=> s (vinyl(1a)aromatic or styren?)(8a)(polydispers? or polymodal? or molecular weight distribution)
L5 2613 (VINYL(1A) AROMATIC OR STYREN?)(8A) (POLYDISPERS? OR POLYMODAL? OR MOLECULAR WEIGHT DISTRIBUTION)

=> s 14 and 15

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L6 101 L4 AND L5

=> s l6 and (butadien? or isopren?)(s)(styren?)

L7 98 L6 AND (BUTADIEN? OR ISOPREN?)(S)(STYREN?)

=> d l7 1-30 ibib abs

L7 ANSWER 1 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2008:44935 USPATFULL

TITLE: Perfluorinated Esters, Polyester, Ethers and Carbonates

INVENTOR(S): Lazzari, Dario, Bologna, ITALY

Peri, Francesca, Bologna, ITALY

Brunner, Martin, Wallbach, SWITZERLAND

Zedda, Alessandro, Basel, SWITZERLAND

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2008039558 | A1 | 20080214 |
| APPLICATION INFO.: | US 2005-596732 | A1 | 20050518 (11) |
| | WO 2005-EP52267 | | 20050518 |
| | | | 20061116 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | EP 2004-102281 | 20040525 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | CIBA SPECIALTY CHEMICALS CORPORATION, PATENT DEPARTMENT, 540 WHITE PLAINS RD, P O BOX 2005, TARRYTOWN, NY, 10591-9005, US | |
| NUMBER OF CLAIMS: | 21 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 1420 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present instant invention relates to new compounds of the formula
(I) wherein T is H or R; R is R.sub.1, --CO--R.sub.2,
--CO--R.sub.3--COOH, --CO--R.sub.4 or R.sub.5; R.sub.1 is independently
Formula (II) or Formula (III); and to compositions comprising these
novel compounds and natural, synthetic or semisynthetic material. Such
compounds are useful as water and/or oil repellents. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2007:272560 USPATFULL

TITLE: Synergistic Flame-Proof Mixtures for Polystyrene Foams

INVENTOR(S): Hahn, Klaus, Kirchheim, GERMANY, FEDERAL REPUBLIC OF

Ehrmann, Gerd, Deidesheim, GERMANY, FEDERAL REPUBLIC OF

Ruch, Joachim, Wachenheim, GERMANY, FEDERAL REPUBLIC OF

Allmendinger, Markus, Meckenheim, GERMANY, FEDERAL

REPUBLIC OF

Schmied, Bernhard, Frankenthal, GERMANY, FEDERAL

REPUBLIC OF

Holoch, Jan, Leimen, GERMANY, FEDERAL REPUBLIC OF

Schmaus, Paulus, Ludwigshafen, GERMANY, FEDERAL

REPUBLIC OF

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL
REPUBLIC OF, D-67056 (non-U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

S/N 10/537,738

| | ----- | ----- | ----- |
|---------------------|----------------|-------|-----------------------|
| | NUMBER | DATE | |
| PATENT INFORMATION: | US 2007238794 | A1 | 20071011 |
| APPLICATION INFO.: | US 2005-632416 | A1 | 20050708 (11) |
| | WO 2005-EP7399 | | 20050708 |
| | | | 20070112 PCT 371 date |

| | ----- | ----- |
|-----------------------|---|-------|
| | NUMBER | DATE |
| PRIORITY INFORMATION: | DE 2004-10200403451420040715 | |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | CONNOLLY BOVE LODGE & HUTZ LLP, 1875 EYE STREET, N.W., SUITE 1100, WASHINGTON, DC, 20036, US | |
| NUMBER OF CLAIMS: | 15 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 465 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing flame-resistant, expandable styrene polymers (EPS) or flame-resistant extruded styrene polymer foams (XPS), wherein an organic bromine compound having a bromine content of at least 70% by weight is used as flame retardant and a liquid peroxide, hydroperoxide or a peroxide solution is used as flame retardant synergist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 98 USPATFULL on STN

| | | |
|---------------------|---|-----------|
| ACCESSION NUMBER: | 2007:265681 | USPATFULL |
| TITLE: | Polymerization Catalyst Compositions Containing Metallocene Complexes and Polymers Produced by Using the Same | |
| INVENTOR(S): | Hou, Zhaomin, Wako-shi, JAPAN Luo, Yunjie, Wako-shi, JAPAN Li, Xiaofang, Wako-shi, JAPAN Baldamus, Jens, Wako-shi, JAPAN | |
| PATENT ASSIGNEE(S): | RIKEN, Saitama, JAPAN, 351-0198 (non-U.S. corporation) | |

| | ----- | ----- | ----- |
|---------------------|-----------------|-------|-----------------------|
| | NUMBER | KIND | DATE |
| PATENT INFORMATION: | US 2007232758 | A1 | 20071004 |
| APPLICATION INFO.: | US 2005-631381 | A1 | 20050701 (11) |
| | WO 2005-JP12254 | | 20050701 |
| | | | 20070202 PCT 371 date |

| | ----- | ----- |
|-----------------------|--|----------|
| | NUMBER | DATE |
| PRIORITY INFORMATION: | JP 2004-197271 | 20040702 |
| | JP 2004-366159 | 20041217 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747, US | |
| NUMBER OF CLAIMS: | 52 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 22 Drawing Page(s) | |
| LINE COUNT: | 3204 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a novel catalyst composition comprising a metallocene complex, and a novel producing method for various polymer compounds. Preferably, the invention provides a novel polymer compound, and a producing method thereof. Specifically, the invention provides a

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polymerization catalyst composition, comprising: (1) a metallocene complex represented by the general formula (I), including: a central metal M which is a group III metal atom or a lanthanoid metal atom; a ligand Cp* bound to the central metal and including a substituted or unsubstituted cyclopentadienyl derivative;

monoanionic ligands Q^{sup.1} and Q^{sup.2}; and w neutral Lewis base L; and (2) an ionic compound composed of a non-ligand anion and a cation: ##STR1## where w represents an integer of 0 to 3.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2007:211472 USPATFULL

TITLE: Pelletized brominated anionic styrenic polymers and their preparation and use

INVENTOR(S): Luther, Douglas W., Walker, LA, UNITED STATES

PATENT ASSIGNEE(S): ALBEMARLE CORPORATION, Baton Rouge, LA, UNITED STATES, 70801-1765 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|-----------------------|
| PATENT INFORMATION: | US 2007185280 | A1 | 20070809 |
| APPLICATION INFO.: | US 2004-569070 | A1 | 20040520 (11) |
| | WO 2004-US16107 | | 20040520 |
| | | | 20061114 PCT 371 date |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | ALBEMARLE CORPORATION, 451 FLORIDA STREET, BATON ROUGE, LA, 70801-1765, US | | |
| NUMBER OF CLAIMS: | 32 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 2 Drawing Page(s) | | |
| LINE COUNT: | 907 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Despite the frangibility of additive-free granules of brominated anionic styrenic polymer, it has been found possible by use of special mechanical processing to provide pellets of unadulterated brominated anionic styrenic polymer having a bromine content of at least about 50 wt % and in which at least about 70 wt % (preferably at least about 75 wt %) of the pellets are retained on a standard US Number 40 sieve and no more than about 30 wt % (preferably no more than about 25 wt %) are retained on a standard US Number 5 sieve. In preferred embodiments such pelletized anionic styrenic polymer is brominated anionic polystyrene having a bromine content of at least about 67 wt %, e.g., in the range of about 67 to about 71 wt %. Also preferred are pelletized brominated anionic styrenic polymers in which the melt flow index (ASTM D 1238-99) at 220° C., 2.16 kg is at least 4 g/10 min and preferably is at least 5 g/10 min. Another embodiment of this invention is a method of preparing pelletized unadulterated brominated anionic styrenic polymer which method comprises: A) forming strands of molten unadulterated brominated anionic styrenic polymer; B) submitting said strands to cooling and downwardly directed forced air flow on a porous conveyor belt whereby said strands are broken into pellets; and C) causing said pellets to drop into a classifier that removes fines from the pellets.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2007:135222 USPATFULL

TITLE: Flame Retardant Compositions and Their Use
INVENTOR(S): Muylem, Luc Van, 2135 Northwood Chase Court, Baton Rouge, LA, UNITED STATES 70808
Thomas, Samuel G. Jr., 18723 Santa Maria Avenue, Baton Rouge, LA, UNITED STATES 70809
Landry, Susan D., 2729 Laurel Lakes Avenue, Baton Rouge, LA, UNITED STATES 70820
Luther, Douglas W., 11121 West Anne Drive, Walker, LA, UNITED STATES 70785
PATENT ASSIGNEE(S): ALBEMARLE CORPORATION, Baton Rouge, LA, UNITED STATES, 70801-1765 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2007117904 | A1 | 20070524 |
| APPLICATION INFO.: | US 2007-625679 | A1 | 20070122 (11) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2003-742289, filed on 19 Dec 2003, GRANTED, Pat. No. US 7202296 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SIEBERTH & PATTY, LLC, 4703 BLUEBONNET BLVD, BATON ROUGE, LA, 70809, US | | |
| NUMBER OF CLAIMS: | 50 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Page(s) | | |
| LINE COUNT: | 1139 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are flame retardant compositions comprised of (a) brominated anionic styrenic polymer, and (b) at least one polybrominated alpha-omega diphenylalkane having a total of at least 6 bromine atoms directly bonded to the phenyl rings and in the range of 1 to 6 carbon atoms in the alkylene group disposed between the phenyl groups, and specified flame retarded polymer compositions with which have been blended (a) and (b) individually or in combination.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2007:128725 USPATFULL
TITLE: Moldable-foam moldings composed of expandable pelletized filled polymer materials
INVENTOR(S): Hahn, Klaus, Kirchheim, GERMANY, FEDERAL REPUBLIC OF
Ehrmann, Gerd, Deidesheim, GERMANY, FEDERAL REPUBLIC OF
Ruch, Joachim, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Allmendinger, Markus, Meckenheim, GERMANY, FEDERAL REPUBLIC OF
Schmied, Bernhard, Frankenthal, GERMANY, FEDERAL REPUBLIC OF
Muhlbach, Klaus, Grunstadt, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BASF AKTIENGESELLSCHAFT, LUDWIGSHAFEN GERMANY, GERMANY, FEDERAL REPUBLIC OF, D-67056 (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2007112082 | A1 | 20070517 |
| APPLICATION INFO.: | US 2004-581679 | A1 | 20041203 (10) |
| | WO 2004-EP13748 | | 20041203 |
| | | | 20060606 PCT 371 date |

S/N 10/537,738

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | DE 2003-103 | 20031212 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | CONNOLLY BOVE LODGE & HUTZ, LLP, P O BOX 2207, WILMINGTON, DE, 19899, US | |
| NUMBER OF CLAIMS: | 17 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 796 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Moldable-foam moldings whose density is in the range from 8 to 200 g/l, obtainable via fusion of prefoamed foam beads composed of expandable pelletized filled thermoplastic polymer materials, and a process for preparing the expandable pelletized polymer materials.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2007:128724 USPATFULL

TITLE: Moldable-foam moldings composed of expandable styrene polymers and mixtures with thermoplastic polymers

INVENTOR(S): Hahn, Klaus, Kirchhelm, GERMANY, FEDERAL REPUBLIC OF
Ehrmann, Gerd, Deidesheim, GERMANY, FEDERAL REPUBLIC OF
Ruch, Joachim, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Allmendinger, Markus, Meckenheim, GERMANY, FEDERAL
REPUBLIC OF
Schmied, Bernhard, Frankenthal, GERMANY, FEDERAL
REPUBLIC OF
Holoch, Jan, Leimen, GERMANY, FEDERAL REPUBLIC OF
Muhlbach, Klaus, Grunstadt, GERMANY, FEDERAL REPUBLIC
OF
Riethues, Michael, Ludwigshafen, GERMANY, FEDERAL
REPUBLIC OF

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY,
FEDERAL REPUBLIC OF (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2007112081 | A1 | 20070517 |
| APPLICATION INFO.: | US 2004-581948 | A1 | 20041210 (10) |
| | WO 2004-EP14066 | | 20041210 |
| | | | 20060606 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | DE 2003-10358801 | 20031212 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | CONNOLLY BOVE LODGE & HUTZ, LLP, P O BOX 2207, WILMINGTON, DE, 19899, US | |
| NUMBER OF CLAIMS: | 12 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 428 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Moldable-foam moldings whose density is in the range from 10 to 100 g/l, obtainable via the fusion of prefoamed foam beads composed of expandable, pelletized thermoplastic polymer materials, comprising from 5 to 100% by weight of a styrene copolymer A), from 0 to 95% by weight of polystyrene B), and from 0 to 95% by weight of a thermoplastic

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polymer C) other than A) and B), and a process for producing the expandable pelletized thermoplastic polymer materials.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2006:302507 USPATFULL

TITLE: Transition metal complexes, especially iron complexes, used as a catalyst component in the polymerisation of olefins

INVENTOR(S): Gibson, Vernon Charles, London, UNITED KINGDOM
O'Reilly, Rachel Kerry, County Down, UNITED KINGDOM

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006258867 | A1 | 20061116 |
| APPLICATION INFO.: | US 2004-549239 | A1 | 20040312 (10) |
| | WO 2004-GB1071 | | 20040312 |
| | | | 20060615 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | GB 2003-5927 | 20030314 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP, 1100 SUPERIOR AVENUE, SEVENTH FLOOR, CLEVELAND, OH, 44114, US | |
| NUMBER OF CLAIMS: | 47 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 2 Drawing Page(s) | |
| LINE COUNT: | 792 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB ##STR1## The present invention relates to compounds of formula (I) wherein each of X, Y, Z is independently selected from O, S, NR.sup.1, CR.sup.2R.sup.3, N and CR.sup.4, and where optionally X--Y, Y-Z, Z-E.sup.1 and X-E.sup.2 each independently form part of a saturated or unsaturated ring system which may be substituted or unsubstituted; m is 0 or 1; M is a metal selected from Ti[III], Ti[IV], Fe[II], Fe[III], Co[I], Co[II], Co[III], Ni[II], Cr[III], Mn[II], Mn[III], Mn[IV], Ru[II], Ru[III], Ru[IV], Pd[II], V[II], V[III], V[IV], V[V], Cu[I], Cu[II], Rh[I], Rh[III], Mo[III], Mo[V], Re[I] and Re[II]; each of E.sup.1 and E.sup.2 is independently selected from O, S, NR.sup.5, N, P, PR.sup.6, where at least one of either E.sup.1 or E.sup.2 carries a formal negative charge; L.sup.2 is a one electron donor ligand; n is zero or an integer such that the compound has an overall charge of zero or +1; L.sup.1 is NR.sup.7R.sup.B, PR.sup.7R.sup.B, OR.sup.7, SR.sup.7, O, S or NR.sup.16, imidazolyl, pyridinyl, benzimidazolyl or quinolinyl; each of R.sup.1-8 and R.sup.16 is independently H or a hydrocarbyl group; Q is a linker group; and r is 0 or 1. Further aspects of the invention relate to catalyst compositions comprising compounds of formula (I), and their use in the polymerisation of olefinically unsaturated monomers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2006:261281 USPATFULL

TITLE: Sheet for carrier tape

INVENTOR(S): Hoshi, Susumu, Kanagawa, JAPAN
Sugeno, Fumio, Kanagawa, JAPAN

S/N 10/537,738

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006222794 | A1 | 20061005 |
| | US 7268186 | B2 | 20070911 |
| APPLICATION INFO.: | US 2004-569052 | A1 | 20040820 (10) |
| | WO 2004-JP11966 | | 20040820 |
| | | | 20060222 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 2003-298214 | 20030822 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | STAAS & HALSEY LLP, SUITE 700, 1201 NEW YORK AVENUE, N.W., WASHINGTON, DC, 20005, US | |
| NUMBER OF CLAIMS: | 7 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 929 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a sheet for a carrier tape, having at least one layer comprising (I) a block copolymer comprising a vinyl aromatic hydrocarbon and a conjugated diene, (II) a non-rubber-modified vinyl aromatic type hydrocarbon polymer, and (III) a rubber-modified vinyl aromatic type hydrocarbon polymer, wherein the peak molecular weight of the vinyl aromatic hydrocarbon polymer block in the block copolymer (I) is from 30,000 to 80,000, the half-width in the molecular weight distribution curve of the vinyl aromatic hydrocarbon block is from 1.3 to 2.8, the vinyl aromatic hydrocarbon content in the sheet for a carrier tape is from 75 to 95 wt %, and the content of the vinyl aromatic hydrocarbon polymer component is from 65 to 85 wt %. The sheet for a carrier tape of the present invention is transparent and excellent in the balance of physical properties such as rigidity, impact resistance and heat shrinkability, and therefore, can be suitably used for a carrier tape for packaging an electronic component (e.g., IC, LSI) in an electronic device.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2006:228548 USPATFULL
TITLE: Preparation of impact-resistant thermoplastic materials on the basis of styrene/butadiene copolymers with polydisperse blocks
INVENTOR(S): Morales-Balado, Graciela, Saltillo, MEXICO
Flores-Flores, Rodolfo, Tampico, MEXICO
Montalvo-Robles, Antonio, Ciudad Madero, MEXICO
Diaz De Leon-Gomez, Ramon Enrique, Saltillo, MEXICO
Acuna-Vazquez, Pablo, Saltillo, MEXICO

| | NUMBER | KIND | DATE |
|-----------------------|---|------|-----------------------|
| PATENT INFORMATION: | US 2006194915 | A1 | 20060831 |
| APPLICATION INFO.: | US 2002-537738 | A1 | 20021108 (10) |
| | WO 2002-MX105 | | 20021108 |
| | | | 20060323 PCT 371 date |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | BROWDY AND NEIMARK, P.L.L.C., 624 NINTH STREET, NW, | | |

S/N 10/537,738

SUITE 300, WASHINGTON, DC, 20001-5303, US
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 560

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention describes the obtainment of impact-resistant materials from a block copolymer that comprises as monomers an alkadiene (conjugated diene) and a vinyl aromatic compound, which is used as impact modifier to obtain such materials and in which, at least, one of the blocks of the vinyl aromatic compound is polydisperse. The invention allows obtaining morphologies such as rods, points or capsules by incorporating such copolymer into a polymeric matrix derived from vinyl aromatic monomers independently from other agents such as chain transfer agents, and achieving increases, in the impact values up to 50% through the use of the copolymer of this invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2006:227689 USPATFULL

TITLE: Comb copolymers with defined side chains and process for their manufacture

INVENTOR(S): Fink, Jochen, Nussloch, GERMANY, FEDERAL REPUBLIC OF
Roth, Michael, Lautertal, GERMANY, FEDERAL REPUBLIC OF
Pfaendner, Rudolf, Rimbach, GERMANY, FEDERAL REPUBLIC OF

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006194053 | A1 | 20060831 |
| APPLICATION INFO.: | US 2004-543427 | A1 | 20040202 (10) |
| | WO 2004-EP50063 | | 20040202 |
| | | | 20050726 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | EP 2003-405071 | 20030210 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | CIBA SPECIALTY CHEMICALS CORPORATION, PATENT DEPARTMENT, 540 WHITE PLAINS RD, P O BOX 2005, TARRYTOWN, NY, 10591-9005, US | |

NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 1091

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the modification of copolymers, in particular of grafted copolymers into comb copolymers. The modification comprises the steps (i) of controlled radical polymerization of a polymer or copolymer bearing a epoxide group at one end resulting from the initiation step, and (ii) a heating step of the polymer prepared under (i) and a copolymer bearing a functional group either in the backbone or attached to a side chain, which is able to react with the epoxide group. The result is a comb copolymer with well controlled chain length of the grafted side arms expressed for example by a low polydispersity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

S/N 10/537,738

L7 ANSWER 12 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2005:180964 USPATFULL

TITLE: Method for producing expandable polystyrene

INVENTOR(S): Dietzen, Franz-Josef, Hassloch, GERMANY, FEDERAL
REPUBLIC OF
Ehrmann, Gerd, Deidesheim, GERMANY, FEDERAL REPUBLIC OF
Schmied, Bernhard, Frankenthal, GERMANY, FEDERAL
REPUBLIC OF
Laun, Martin, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Hahn, Klaus, Kirchheim, GERMANY, FEDERAL REPUBLIC OF
Ruch, Joachim, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
Allmendinger, Markus, Deggingen, GERMANY, FEDERAL
REPUBLIC OF
Holoch, Jan, Leimen, GERMANY, FEDERAL REPUBLIC OF
Datko, Achim, Leimen, GERMANY, FEDERAL REPUBLIC OF

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2005156344 | A1 | 20050721 |
| APPLICATION INFO.: | US 2003-516921 | A1 | 20030606 (10) |
| | WO 2003-EP5952 | | 20030606 |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | DE 2002-10226749 | 20020614 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | NOVAK DRUCE DELUCA & QUIGG, LLP, 1300 EYE STREET NW, SUITE 400 EAST, WASHINGTON, DC, 20005, US | |
| NUMBER OF CLAIMS: | 24 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 1 Drawing Page(s) | |
| LINE COUNT: | 433 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the preparation of expandable styrene polymers having a molecular weight M.sub.w of greater than 170,000 g/mol, which comprises conveying a blowing agent-containing styrene polymer melt having a temperature of at least 120° C. through a die plate with holes whose diameter at the die exit is at most 1.5 mm, and subsequently granulating the extrudate, and expandable styrene polymers (EPS) having a molecular weight M.sub.w of more than 170,000 g/mol with 0.05 to 1.5% by weight of internal water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2005:159101 USPATFULL

TITLE: Flame retardant compositions and their use

INVENTOR(S): Muylem, Luc Van, Baton Rouge, LA, UNITED STATES
Thomas, Samuel G. JR., Baton Rouge, LA, UNITED STATES
Landry, Susan D., Baton Rouge, LA, UNITED STATES
Luther, Douglas W., Walker, LA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2005137311 | A1 | 20050623 |
| | US 7202296 | B2 | 20070410 |
| APPLICATION INFO.: | US 2003-742289 | A1 | 20031219 (10) |
| DOCUMENT TYPE: | Utility | | |

S/N 10/537,738

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SIEBERTH & PATTY, LLC, 4703 BLUEBONNET BLVD, BATON
ROUGE, LA, 70809, US

NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Page(s)
LINE COUNT: 1103

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are flame retardant compositions comprised of (a) brominated anionic styrenic polymer, and (b) at least one polybrominated alpha-omega diphenylalkane having a total of at least 6 bromine atoms directly bonded to the phenyl rings and in the range of 1 to 6 carbon atoms in the alkylene group disposed between the phenyl groups, and specified flame retarded polymer compositions with which have been blended (a) and (b) individually or in combination.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2005:104768 USPATFULL
TITLE: Block copolymer, its composition
and film made of it

INVENTOR(S): Matsui, Masamitsu, Chiba, JAPAN
Watanabe, Hideki, Chiba, JAPAN
Yoshida, Jun, Chiba, JAPAN
Hoshino, Hisakazu, Chiba, JAPAN

PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kabushiki Kaisha, Tokyo, JAPAN
(non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2005089702 | A1 | 20050428 |
| | US 7189462 | B2 | 20070313 |
| APPLICATION INFO.: | US 2004-991550 | A1 | 20041119 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2003-415662, filed on 8 May 2003, GRANTED, Pat. No. US 6841261 A 371 of International Ser. No. WO 2001-JP9844, filed on 9 Nov 2001 | | |

| | NUMBER | DATE |
|-----------------------|----------------|----------|
| PRIORITY INFORMATION: | JP 2000-343139 | 20001110 |
| | JP 2001-19564 | 20010129 |
| | JP 2001-82539 | 20010322 |
| | JP 2001-284430 | 20010919 |
| | JP 2001-317984 | 20011016 |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940
DUKE STREET, ALEXANDRIA, VA, 22314, US

NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
LINE COUNT: 3074

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB It is to provide a block copolymer and its copolymer composition which provides a heat shrinkable (multilayer) film with less spontaneous shrinkage while maintaining favorable low temperature shrinkability, and a heat shrinkable (multilayer) film containing the block copolymer. By using a block copolymer comprising a vinyl aromatic hydrocarbon and a

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conjugated diene characterized in that the relation of the loss tangent value obtained by dynamic viscoelasticity measurement with the temperature satisfies specific conditions, or a composition containing the copolymer composition as an essential component, a heat shrinkable (multilayer) film with less spontaneous shrinkability and less odor while maintaining favorable low temperature shrinkability can be obtained.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 15 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2005:24223 USPATFULL
TITLE: Antistatic styrenic polymer composition
INVENTOR(S): Lacroix, Christophe, Harquency, FRANCE
Baumert, Martin, Serquigny, FRANCE

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2005020772 | A1 | 20050127 |
| APPLICATION INFO.: | US 2004-502883 | A1 | 20040730 (10) |
| | WO 2002-FR383 | | 20020131 |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SMITH, GAMBRELL & RUSSELL, LLP, 1850 M STREET, N.W., SUITE 800, WASHINGTON, DC, 20036 | | |
| NUMBER OF CLAIMS: | 18 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 800 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a composition comprising, for 100 parts by weight, 99-60 parts of a styrenic polymer (A), 1-40 parts of (B)+(C), (B) being a polyamide block and polyether block copolymer essentially comprising ethylene oxide patterns (C₂H₄-O)--, (C) being a compatibilizer chosen from block copolymers comprising at least one polymerized block comprising styrene and at elast one polymerized block comprising methyl methacrylate, (B)/(C) ranging from 2 to 10.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2004:152361 USPATFULL
TITLE: Styrene polymer composition and molded article obtained therefrom
INVENTOR(S): Okada, Akihiko, Chiba, JAPAN
Aoyama, Takuma, Chiba, JAPAN

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004116583 | A1 | 20040617 |
| APPLICATION INFO.: | US 2003-472554 | A1 | 20030923 (10) |
| | WO 2002-JP2133 | | 20020307 |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 2001-85435 | 20010323 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314 | |

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NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
LINE COUNT: 836

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A styrene polymer composition containing a component (A); i.e., a styrene polymer having an atactic configuration, or a mixture of a styrene polymer having an atactic configuration and a polyphenylene ether, a component (B); i.e., a styrene polymer having a syndiotactic configuration, and a component (E); i.e., a plasticizer; and optionally containing a component (C); i.e., a polyphenylene ether and a component (D); i.e., a rubber and/or a polyolefin, wherein the amount of the component (B) is 3 to 90 parts by weight on the basis of 100 parts by weight of the total amount of the components (A), (B), (C), and (D), and the amount of the component (E) is 0.05 to 10 parts by weight on the basis of 100 parts by weight of the total amount of the components (A), (B), (C), and (D); and a molded product formed through molding of the composition. The present invention provides a molded product exhibiting chemical resistance even when high strain is applied thereto, as well as a styrene polymer composition which is suitable as a material for forming such a molded product.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 17 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2004:134051 USPATFULL

TITLE: Process for producing olefin/aromatic vinyl compound copolymer

INVENTOR(S): Arai, Toru, Tokyo, JAPAN
Otsu, Toshiaki, Tokyo, JAPAN
Nakajima, Masataka, Tokyo, JAPAN

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004102588 | A1 | 20040527 |
| | US 7022794 | B2 | 20060404 |
| APPLICATION INFO.: | US 2003-477548 | A1 | 20031113 (10) |
| | WO 2002-JP4711 | | 20020515 |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | JP 2001-144266 | 20010515 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314 | |
| NUMBER OF CLAIMS: | 21 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 4 Drawing Page(s) | |
| LINE COUNT: | 1381 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB It is to provide a process for producing an olefin/aromatic vinyl compound copolymer which is excellent in transparency and which satisfies flexibility and heat resistance simultaneously, with a practically high productivity.

A process for producing an olefin/aromatic vinyl compound copolymer, which comprises carrying out polymerization in such a manner that at least one of conditions (a) the polymerization is carried out to an aromatic vinyl compound monomer conversion ratio of at least 50 mol % when the polymerization is completed, and (b) the polymer concentration

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is at least 10 mass % relative to the polymerization solution when the polymerization is completed, is satisfied, and the olefin partial pressure is changed so that the olefin partial pressure when the polymerization is completed is from 1.3 to 20 times the olefin partial pressure at the initiation of the polymerization. An olefin/aromatic vinyl compound copolymer obtained by the process, and an olefin/aromatic vinyl compound copolymer excellent in transparency, heat resistance and moldability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 18 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2004:134039 USPATFULL

TITLE: Block copolymer, its composition
and film made thereof

INVENTOR(S): Matsui, Masamitsu, Chiba, JAPAN
Watanabe, Hideki, Chiba, JAPAN
Yoshida, Jun, Chiba, JAPAN
Hoshino, Hisakazu, Chiba, JAPAN

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004102576 | A1 | 20040527 |
| | US 6841261 | B2 | 20050111 |
| APPLICATION INFO.: | US 2003-415662 | A1 | 20030508 (10) |
| | WO 2001-JP9844 | | 20011109 |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 2000-343139 | 20001110 |
| | JP 2001-19564 | 20010129 |
| | JP 2001-82539 | 20010322 |
| | JP 2001-284430 | 20010919 |
| | JP 2001-317984 | 20011016 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314 | |
| NUMBER OF CLAIMS: | 33 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 3139 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB It is to provide a block copolymer and its copolymer composition which provides a heat shrinkable (multilayer) film with less spontaneous shrinkage while maintaining favorable low temperature shrinkability, and a heat shrinkable (multilayer) film containing the block copolymer.

By using a block copolymer comprising a vinyl aromatic hydrocarbon and a conjugated diene characterized in that the relation of the loss tangent value obtained by dynamic viscoelasticity measurement with the temperature satisfies specific conditions, or a composition containing the copolymer composition as an essential component, a heat shrinkable (multilayer) film with less spontaneous shrinkability and less odor while maintaining favorable low temperature shrinkability can be obtained.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 19 OF 98 USPATFULL on STN

S/N 10/537,738

ACCESSION NUMBER: 2004:101918 USPATFULL
TITLE: Block copolymers containing
functional groups
INVENTOR(S): Saldivar Guerra, Enrique, Metepec, MEXICO
Gonzalez Montiel, Alfonso, Atizapan de Zaragoza, MEXICO
PATENT ASSIGNEE(S): CID Centro de Investigacion y Desarrollo Tecnologico,
S.A. De. C.V., Lerma, MEXICO (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004077788 | A1 | 20040422 |
| | US 7323528 | B2 | 20080129 |
| APPLICATION INFO.: | US 2003-621929 | A1 | 20030716 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2002-397420P | 20020719 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | VINSON & ELKINS L.L.P., 1001 FANNIN STREET, 2300 FIRST CITY TOWER, HOUSTON, TX, 77002-6760 | |
| NUMBER OF CLAIMS: | 88 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 3 Drawing Page(s) | |
| LINE COUNT: | 2477 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a block copolymer of
styrene and an unsaturated cyclic anhydride, such as maleic anhydride, a
process for making a copolymer using controlled free radical
polymerization in which certain parameters are adjusted to control the
microstructure and molecular weight of the copolymer, and a method for
using the block copolymer, including as a
compatibilizer. Microstructure and molecular weight in the block
copolymer can be controlled by adjusting the ratio of stable
free radical to initiator. The copolymer can be made in a one step
process and has a controlled microstructure that allows one block to be
reactive toward several chemical moieties available in engineering
polymers and the other block to be fully miscible with polystyrene or
polymers miscible with polystyrene or polymers miscible with polystyrene
such as polyphenylene ether.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 20 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2004:51697 USPATFULL
TITLE: Hydrogenated copolymer
INVENTOR(S): Sasagawa, Masahiro, Kanagawa-ken, JAPAN
Takayama, Shigeki, Tokyo, JAPAN
Sasaki, Shigeru, Kanagawa-ken, JAPAN
Hisasue, Takahiro, Kanagawa-ken, JAPAN
Suzuki, Katsumi, Kanagawa-ken, JAPAN
Nakajima, Shigeo, Kanagawa, JAPAN

| | NUMBER | KIND | DATE |
|---------------------|-----------------|------|---------------|
| PATENT INFORMATION: | US 2004039128 | A1 | 20040226 |
| | US 6852806 | B2 | 20050208 |
| APPLICATION INFO.: | US 2003-432194 | A1 | 20030520 (10) |
| | WO 2002-JP10973 | | 20021023 |

S/N 10/537,738

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 2001-325476 | 20011023 |
| | JP 2002-55388 | 20020301 |
| | JP 2002-189562 | 20020628 |
| | JP 2002-205350 | 20020715 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747 | |
| NUMBER OF CLAIMS: | 16 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 4 Drawing Page(s) | |
| LINE COUNT: | 4458 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a hydrogenated copolymer obtained by hydrogenating an unhydrogenated copolymer comprising conjugated diene monomer units and vinyl aromatic monomer units, the unhydrogenated copolymer having at least one polymer block (H) of vinyl aromatic monomer units, wherein the hydrogenated copolymer has the following characteristics (1) to (5): (1) a content of the vinyl aromatic monomer units of from more than 60% by weight to less than 90% by weight, based on the weight of the hydrogenated copolymer; (2) a content of the polymer block (H) of from 1 to 40% by weight, based on the weight of the unhydrogenated copolymer; (3) a weight average molecular weight of from more than 100,000 to 1,000,000; (4) a hydrogenation ratio of 85% or more, as measured with respect to the double bonds in the conjugated diene monomer units; and (5) substantially no crystallization peak observed at -50 to 100° C. in a differential scanning calorimetry (DSC) chart obtained with respect to the hydrogenated copolymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 21 OF 98 USPATFULL on STN

| | | |
|---------------------|---|-----------|
| ACCESSION NUMBER: | 2003:268088 | USPATFULL |
| TITLE: | Medical Device | |
| INVENTOR(S): | Oda, Takeshi, Tokyo, JAPAN | |
| | Nishitoba, Yukiko, Tokyo, JAPAN | |
| | Arai, Toru, Tokyo, JAPAN | |
| | Okamoto, Akio, Tokyo, JAPAN | |
| | Otsu, Toshiaki, Tokyo, JAPAN | |
| PATENT ASSIGNEE(S): | Denki Kagaku Kogyo Kabushiki Kaisha, Tokyo, JAPAN | |
| | (non-U.S. corporation) | |

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6630215 | B1 | 20031007 |
| | WO 9945980 | | 19990916 |
| APPLICATION INFO.: | US 2000-622914 | | 20000907 (9) |
| | WO 1999-JP1105 | | 19990308 |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 1998-56876 | 19980309 |
| | JP 1998-333990 | 19981125 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Nolan, Sandra M. | |
| LEGAL REPRESENTATIVE: | Oblon, Spivak, McClelland, Maier & Neustadt, P.C. | |
| NUMBER OF CLAIMS: | 8 | |

S/N 10/537,738

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1331

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A medical material and a medical device comprising an aromatic vinyl compound/ α -olefin random copolymer according to the present invention, are materials which contain substantially no chlorine and which have not only excellent flexibility, transparency and proper resilience but also radiation resistance and biocompatibility, and they are hence advantageously used especially in the medical field.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 22 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2003:190814 USPATFULL

TITLE: Transparent, impact-resistant polystyrene on a styrene-butadiene block copolymer basis

INVENTOR(S): Knoll, Konrad, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Fischer, Wolfgang, Walldorf, GERMANY, FEDERAL REPUBLIC OF
Gausepohl, Hermann, Mutterstadt, GERMANY, FEDERAL REPUBLIC OF
Koch, Jorgen, Neuhofen, GERMANY, FEDERAL REPUBLIC OF
Wunsch, Josef, Schifferstadt, GERMANY, FEDERAL REPUBLIC OF
Naegele, Paul, Otterstadt, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6593430 | B1 | 20030715 |
| | WO 2000058380 | | 20001005 |
| APPLICATION INFO.: | US 2001-936784 | | 20010918 (9) |
| | WO 2000-EP2568 | | 20000323 |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | DE 1999-19914075 | 19990327 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Teskin, Fred | |
| LEGAL REPRESENTATIVE: | Keil & Weinkauff | |
| NUMBER OF CLAIMS: | 13 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 0 Drawing Figure(s); 0 Drawing Page(s) | |
| LINE COUNT: | 473 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Block copolymers comprise at least two hard blocks S.sub.1 and S.sub.2 made from vinylaromatic monomers and, between these, at least one random soft block B/S made from vinylaromatic monomers and from dienes, where the proportion of the hard blocks is above 40% by weight, based on the total block copolymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 23 OF 98 USPATFULL on STN

S/N 10/537,738

ACCESSION NUMBER: 2003:123386 USPATFULL
TITLE: Cross-copolymerized olefin/styrene/diene copolymer,
process for the production of the same and uses thereof
INVENTOR(S): Arai, Toru, Tokyo, JAPAN
Nakajima, Masataka, Tokyo, JAPAN
Otsu, Toshiaki, Tokyo, JAPAN
PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kabushiki Kaisha, Tokyo, JAPAN
(non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6559234 | B1 | 20030506 |
| | WO 2000037517 | | 20000629 |
| APPLICATION INFO.: | US 2001-831380 | | 20010517 (9) |
| | WO 1999-JP7239 | | 19991222 |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 1998-365362 | 19981222 |
| | JP 1999-258618 | 19990913 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Seidleck, James J. | |
| ASSISTANT EXAMINER: | Asinovsky, Olga | |
| LEGAL REPRESENTATIVE: | Oblon, Spivak, McClelland, Maier & Neustadt, P.C. | |
| NUMBER OF CLAIMS: | 86 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 12 Drawing Figure(s); 11 Drawing Page(s) | |
| LINE COUNT: | 4150 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention firstly provides a novel olefin/styrene/diene type cross-copolymer having excellent physical properties and mechanical properties, and a novel, efficient and economically excellent process for its production. Further, it provides an efficient and economically excellent process for producing various cross-copolymers such as an olefin/diene type cross-copolymer.

The present invention secondly provides various resin compositions or processed products containing cross-copolymers, having problems of various conventional resin compositions or processed products solved and improved, as applications of cross-copolymers of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 24 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2003:115890 USPATFULL
TITLE: Polymerisation catalyst
INVENTOR(S): Gibson, Vernon Charles, London, UNITED KINGDOM
Wass, Duncan Frank, London, UNITED KINGDOM
PATENT ASSIGNEE(S): BP Chemicals Limited, London, UNITED KINGDOM (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6555636 | B1 | 20030429 |
| APPLICATION INFO.: | US 2000-708062 | | 20001108 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. WO 1999-GB1376, filed on 4 May 1999 | | |

| NUMBER | DATE |
|--------|------|
|--------|------|

PRIORITY INFORMATION: GB 1998-9926 19980508
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Wu, David W.
ASSISTANT EXAMINER: Choi, Ling-Siu
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 450

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A catalyst composition for the polymerization of radically polymerisable monomer is disclosed, which comprises (i) an initiator having a radically transferable atom or group and (ii) a component of Formula (I): $\{Fe[T]L\} \cdot (T/b)X$, wherein Fe is iron and T its oxidation state, L is a ligand of Formula (II): $R_1-N-CH_2-CH_2-N-R_2$, in which R_1 and R_2 are independently selected from C₁-C₁₀ alkyl, aryl and substituted aryl, and n is 0 or 1; X represents an atom or group covalently or ionically bonded to Fe; b is the valency of the atom or group X.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 25 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2003:47823 USPATFULL
TITLE: Glass-clear impact-modified polystyrene based on styrene-butadiene block copolymers
INVENTOR(S): Knoll, Konrad, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Gausepohl, Herrmann, Mutterstadt, GERMANY, FEDERAL REPUBLIC OF
Fischer, Wolfgang, Walldorf, GERMANY, FEDERAL REPUBLIC OF
Wunsch, Josef, Schifferstadt, GERMANY, FEDERAL REPUBLIC OF
Naegele, Paul, Otterstadt, GERMANY, FEDERAL REPUBLIC OF
Koch, Jurgen, Kapellen, BELGIUM
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6521712 | B1 | 20030218 |
| APPLICATION INFO.: | US 1999-471288 | | 19991223 (9) |

| | NUMBER | DATE |
|--|--|----------|
| PRIORITY INFORMATION: | DE 1999-19914075 | 19990327 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Mullis, Jeffrey | |
| LEGAL REPRESENTATIVE: | Keil & Weinkauff | |
| NUMBER OF CLAIMS: | 13 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 0 Drawing Figure(s); 0 Drawing Page(s) | |
| LINE COUNT: | 431 | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | |
| AB | Block copolymers comprise at least two hard blocks | |

S/N 10/537,738

S.sub.1 and S.sub.2 made from vinyl aromatic monomers and, between these, at least one random soft block B/S made from vinyl aromatic monomers and from dienes, where the proportion of the hard blocks is above 40% by weight, based on the total block copolymer, wherein the 1,2-vinyl content in the soft block B/S is less than 20%.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 26 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2002:219648 USPATFULL

TITLE: Foamed cellular particles of an expandable polymer composition

INVENTOR(S): Arch, Paul Edward, Coraopolis, PA, UNITED STATES
Bressler, John Thomas, Beaver Falls, PA, UNITED STATES
Berghmans, Michel Florentine Jozef, Breda, NETHERLANDS
Bleijenberg, Karel Cornelis, Breda, NETHERLANDS
Cowan, David Allen, Cranberry Township, PA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|---------------|------|---------------|
| PATENT INFORMATION: | US 2002117769 | A1 | 20020829 |
| APPLICATION INFO.: | US 2001-21716 | A1 | 20011130 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2000-251140P | 20001204 (60) |
| | US 2000-254205P | 20001208 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Suzanne Kikel, NOVA Chemicals Inc., 400 Frankford Road, Monaca, PA, 15061 | |
| NUMBER OF CLAIMS: | 50 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 1599 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Foamed cellular particles made from an expandable polymer composition are formed at the plant of the polymer producer and shipped to the foam molder for making foam articles. The foamed cellular particles have a bulk density between 34.3 pounds per cubic foot (550 kilograms per cubic meter) and 12.5 pounds per cubic foot (200 kilograms per cubic meter) and a blowing agent e.g. pentane less than 6.0 wt %, i.e. ranging in an amount of 2.0 and 5.0 wt %, i.e. between 2.5 and 3.5 wt %. These particles have an established cell structure and a fixed number of cells. The average cell size ranges between 5 and 100 microns. The foamed cellular particles are shipped to the foam molder a) in packages with a material strength that is less than the packages used for shipping expandable polymer particles and b) at a total shipment weight that is equal to the total shipment weight of the expandable particles. The foamed cellular particles can be used to form foam articles using conventional processes and equipment without the need to impregnate the foamed cellular particles with an additional amount of blowing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 27 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2002:152724 USPATFULL

TITLE: Resin composition

INVENTOR(S): Oda, Takeshi, Machida, JAPAN

S/N 10/537,738

Suzuki, Shigeru, Machida, JAPAN
Arai, Toru, Machida, JAPAN
Okamoto, Akio, Machida, JAPAN
Nakajima, Masataka, Machida, JAPAN
Toya, Hideki, Ichihara, JAPAN
PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kabushiki Kaisha, Tokyo, JAPAN
(non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|-----------------------|
| PATENT INFORMATION: | US 6410649 | B1 | 20020625 |
| | WO 9948972 | | 19990930 |
| APPLICATION INFO.: | US 2000-646771 | | 20000922 (9) |
| | WO 1999-JP1412 | | 19990319 |
| | | | 20000922 PCT 371 date |

| | NUMBER | DATE |
|-----------------------|----------------|----------|
| PRIORITY INFORMATION: | JP 1998-72940 | 19980323 |
| | JP 1998-72941 | 19980323 |
| | JP 1998-72942 | 19980323 |
| | JP 1998-74397 | 19980323 |
| | JP 1998-293352 | 19981015 |
| | JP 1998-293353 | 19981015 |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Nutter, Nathan M.
LEGAL REPRESENTATIVE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1607

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A resin composition characterized by comprising from 5 to 95 wt % of an aromatic vinyl compound/olefin random copolymer (A) which has an aromatic vinyl compound content of from 1 to 99 mol % and has a head-to-tail chain structure composed of two or more aromatic vinyl compound units, and from 95 to 5 wt % of an α -olefin type polymer (B) and/or an aromatic vinyl compound type polymer (C) (provided that it is neither a medical material nor a medical device), which contains substantially no chlorine and is excellent in the impact resistance, moldability, weather resistance and chemical resistance and which is useful for an injection molded product, an extrusion molded product, a film, a sheet, etc. Further, it provides an excellent damping material.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 28 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2002:130059 USPATFULL

TITLE: Heteroleptic alkaline-earth metal compounds and methods for carrying out stereoselective anionic polymerization

INVENTOR(S): Knoll, Konrad, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Brintzinger, Hans-Herbert, Tagerwilen, GERMANY, FEDERAL REPUBLIC OF

Harder, Sjoerd, Constance, GERMANY, FEDERAL REPUBLIC OF
Weeber, Armin, Markdorf, GERMANY, FEDERAL REPUBLIC OF
Feil, Florian, Constance, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

S/N 10/537,738

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|-----------------------|
| PATENT INFORMATION: | US 6399727 | B1 | 20020604 |
| | WO 2000050468 | | 20000831 |
| APPLICATION INFO.: | US 2001-913993 | | 20010821 (9) |
| | WO 2000-EP1406 | | 20000221 |
| | | | 20000821 PCT 371 date |

| | NUMBER | DATE |
|--|--|----------|
| PRIORITY INFORMATION: | DE 1999-19908079 | 19990225 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Teskin, Fred | |
| LEGAL REPRESENTATIVE: | Keil & Weinkauff | |
| NUMBER OF CLAIMS: | 10 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 0 Drawing Figure(s); 0 Drawing Page(s) | |
| LINE COUNT: | 688 | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | |
| AB | Polymerization initiator comprising an alkaline earth metal compound chosen from the group | |

a) of heteroleptic alkaline earth metal compounds of the formula I

$L-M-R$ (I)

or

b) of cationic alkaline earth metal complexes of the formula II

$[D \rightarrow M-R]^{+X-}$ (II),

where

M: is Ca, Sr or Ba,

L: is a polymerization-inactive ligand,

R: is a polymerization-active ligand,

D: is a donor ligand, and

X: is a non-coordinating anion,

and processes for the preparation of the polymerization initiators and processes for anionic polymerization in the presence of the polymerization initiators.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 29 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2002:34505 USPATFULL

TITLE: Styrenic resin composition and semiconductor carrier device

INVENTOR(S): Sugioka, Taizou, Ichihara, JAPAN
Miura, Shinichi, Ichihara, JAPAN
Mihara, Masami, Ichihara, JAPAN
Yamao, Shinobu, Ichihara, JAPAN

S/N 10/537,738

PATENT ASSIGNEE(S): Nakamichi, Masahiro, Tokyo, JAPAN
Idemitsu Petrochemical Co., Ltd., Tokyo, JAPAN
(non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6348540 | B1 | 20020219 |
| APPLICATION INFO.: | US 1999-291049 | | 19990414 (9) |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | JP 1998-111248 | 19980422 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Mulcahy, Peter D. | |
| LEGAL REPRESENTATIVE: | Oblon, Spivak, McClelland, Maier & Neustadt, P.C. | |
| NUMBER OF CLAIMS: | 20 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 0 Drawing Figure(s); 0 Drawing Page(s) | |
| LINE COUNT: | 1059 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided is a syndiotactic polystyrenic resin composition, of which the resin moiety comprises any of (A) a syndiotactic styrenic polymer (B) a rubber-like elastomer having affinity for the component (A), (E) a polymer having compatibility with or affinity for the component (A) and having a polar group, (F) a thermoplastic resin except (A), and (G) a polyolefin having MI of at most 25, and which contains from 10 to 350 parts by weight, relative to 100 parts by weight of the resin moiety, of (C) a fibrous filler, and from 10 to 350 parts by weight, relative to the same, of (D) a tabular filler having a mean grain size of from 4 to 700 μm and a mean aspect ratio of from 12 to 120. Moldings of the composition have good impact resistance and warp little, still having good heat resistance and other good properties intrinsic to styrenic resins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 30 OF 98 USPATFULL on STN
ACCESSION NUMBER: 2001:185408 USPATFULL
TITLE: Rubbery polymer and method for producing the same
INVENTOR(S): Matsuda, Takaaki, Ooita, Japan
Yamasaki, Hideki, Ooita, Japan
PATENT ASSIGNEE(S): Japan Elastomer Co., Ltd., Tokyo, Japan (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6306976 | B1 | 20011023 |
| APPLICATION INFO.: | US 1997-969746 | | 19971113 (8) |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | JP 1996-336275 | 19961203 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Niland, Patrick D. | |
| LEGAL REPRESENTATIVE: | Birch, Stewart, Kolasch & Birch, LLP | |
| NUMBER OF CLAIMS: | 18 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 1 Drawing Figure(s); 1 Drawing Page(s) | |

S/N 10/537,738

LINE COUNT: 2492

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a rubbery polymer comprising a conjugated diene polymer, and bonded thereto, a lithium-detached residue of a lithium-containing organic polymer used as a catalyst in the production of the conjugated diene polymer, wherein the lithium-containing organic polymer is obtained by reacting an organolithium compound with a first polymerizable material comprising at least one conjugated diene monomer and a second polymerizable material comprising at least one aromatic vinyl compound, which second polymerizable material contains at least one multi-vinyl aromatic compound having at least two vinyl groups, and wherein the lithium-containing organic polymer has a specific narrow molecular weight distribution. The rubbery polymer of the present invention is commercially advantageous in that, by using it as a reinforcing agent for a styrene polymer resin, there can be obtained a high impact styrene polymer resin composition which is useful for producing shaped articles having an excellent balance of impact resistance and appearance (luster).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

118.04

136.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.80

FILE 'STNGUIDE' ENTERED AT 17:34:07 ON 26 MAR 2008

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Mar 21, 2008 (20080321/UP).

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CONTINUE? (Y)/N:y

L7 ANSWER 28 OF 98 USPATFULL on STN

ACCESSION NUMBER: 2002:130059 USPATFULL

TITLE: Heteroleptic alkaline-earth metal compounds and methods
for carrying out stereoselective anionic polymerization

INVENTOR(S): Knoll, Konrad, Ludwigshafen, GERMANY, FEDERAL REPUBLIC
OF
Brintzinger, Hans-Herbert, Tagerwilen, GERMANY, FEDERAL
REPUBLIC OF

Harder, Sjoerd, Constance, GERMANY, FEDERAL REPUBLIC OF
Weeber, Armin, Markdorf, GERMANY, FEDERAL REPUBLIC OF
Feil, Florian, Constance, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

NUMBER

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| | | | |
|---------------------|----------------|----|-----------------------|
| PATENT INFORMATION: | US 6399727 | B1 | 20020604 |
| | WO 2000050468 | | 20000831 |
| APPLICATION INFO.: | US 2001-913993 | | 20010821 (9) |
| | WO 2000-EP1406 | | 20000221 |
| | | | 20000821 PCT 371 date |

| | | |
|-----------------------|--|----------|
| | NUMBER | DATE |
| PRIORITY INFORMATION: | DE 1999-19908079 | 19990225 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Teskin, Fred | |
| LEGAL REPRESENTATIVE: | Keil & Weinkauff | |
| NUMBER OF CLAIMS: | 10 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 0 Drawing Figure(s); 0 Drawing Page(s) | |
| LINE COUNT: | 688 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM Anionic and cationic polymerization, like free-radical polymerization, usually also leads to atactic polystyrene. Anionic polymerization has living character and therefore several advantages over free-radical polymerization or polymerization catalyzed by metallocenes. Thus, for example, it is possible to control simply the molecular weight via the ratio of initiator to monomers and the formation of block copolymers. The polymers prepared by the anionic process have a narrow molecular weight distribution and low residual monomer contents.

SUMM The anionic polymerization of styrene and butadiene is usually initiated by organolithium polymerization initiators. The anionic polymerization initiation by organobarium compounds is known, for example, from U.S. Pat. Nos. 3,965,080, 4,012,336. The unpublished DE-A 197 54 504 describes an improved process for the preparation of bisorganoalkaline earth metal compounds.

SUMM B. Nakhmanovich et al., Journal of Makromol. Science Chem. A9(4), pages 575 to 596 (1975) describe the random copolymerization of styrene and butadiene with a high cis 1,4-content of the butadiene units.

SUMM Particular preference is given to using butadiene and styrene.

SUMM The polymerization is expediently carried out in an aliphatic or aromatic hydrocarbon or hydrocarbon mixture, preferably in benzene, toluene, ethylbenzene, xylene, cumene or cyclohexane. Particular preference is given to using cyclohexane or toluene. Further process parameters are unimportant for carrying out the process. It is possible to operate in the temperature and pressure ranges known for the anionic polymerization of butadiene and styrene.

SUMM Because of the living character, the polymerization initiators according to the invention can be used to prepare, by sequential monomer addition, block copolymers of varying structure.

SUMM The polymerization initiators according to the invention can thus also be used to prepare block copolymers with syndiotactic blocks of vinylaromatic monomers, for example styrene-butadiene-styrene three-block copolymers, which, depending on the

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butadiene content, are suitable as transparent, impact-resistant polystyrene or thermoplastic elastomers with increased heat deflection temperature.

DETD A 250 ml stainless steel autoclave was charged with 100 ml of styrene and, at 25° C., 1.2 ml of a 0.1 normal solution of [(2-dimethylaminophenyl)(trimethylsilyl)methyl][α -trimethylsilylfluorenyl]calcium (Example 1) in benzene were added thereto. During the polymerization, the temperature did not increase by more than 3° C. After 30 minutes, the reaction was terminated using methanol. The resulting polystyrene was dried at 120° C. for two hours under a high vacuum, washed in THF and again dried at 120° C. for two hours under a high vacuum in order to remove unreacted styrene. The molecular weight distribution was analyzed using GPC. The tacticity of the polystyrene was determined by means of ^{13}C -NMR spectroscopy in tetrachlorodideuteroethane at 377 K.

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